A.N.A.R.T.S. News Bulletin 1350 for 29th May 2005.

Items in this broadcast include

1. Cols Column
2. News from the ARRL
3. IPS REPORT
4. VK2SG RTTY DX report
5. ARRL DX Bulletin
6. Anarts Information

Col's Column

Early Electrical Communication.

Bright's Acoustic Telegraph.

Charles Bright knew that the main problem with the existing telegraph systems in use during the mid 1850's was that experienced by operators at the receive end of the telegraph. The eyes of the operator were fully occupied watching which way the needles moved. It was impossible for him to write each character down as it was received and it was there the practice for the operator to say aloud the letter or word as it was spelled out by the needles. Two disadvantages were apparent to Bright.

1. The additional cost involved, and 2. the error rate was considerably increased, especially with words and letters that sounded the same, such as wood and would, S and F etc.

He therefore devised a receive telegraph much the same as the needle telegraph, except that it also included two bells with different notes. The operator could now, as with the later Morse Sounder, listen to the bells and write the characters down much the same way as amateurs do now when receiving CW.

Later versions of Brights Telegraph had a single bell. It had a 'Key' similar to a Morse Key. By depressing the key either longer or shorter the transmit operator could send either a sharp ring, or muffled ring of the receive bell. Operators of Brights system preferred this, again much like the Morse operators preferred to use his Sounder.

A circuit diagram of this system will be placed on my web pages this Sunday.

Next week some more British inventions before looking at the American scene.

73's Col VK2CTD

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ARRL ENCOURAGED BY NEW MOTOROLA BPL TECHNOLOGY

The ARRL this week said it was encouraged to learn of Motorola's just-announced Powerline LV system--a BPL system that takes radio interference concerns into consideration from the outset. The Powerline LV system avoids using medium-voltage power lines and introduces broadband signals only on the low-voltage side of the power transformer, greatly reducing the system's radio interference potential.

'We know that medium-voltage power lines are no place for broadband energy, since there is overwhelming technical evidence that radio interference from BPL is unavoidable if MV lines are used,' said ARRL CEO David Sumner K1ZZ. 'By confining their Access BPL system to low-voltage lines and by adding hardware notch filters for additional protection to Amateur Radio frequency allocations, Motorola has addressed our interference concerns.'

Sumner explained this week that until Motorola Powerline LV came along, opposing BPL and opposing BPL interference were essentially one and the same. During product development, Motorola invited ARRL's suggestions and welcomed its input. Sumner said he hopes other BPL system providers now will see the benefit of cooperating with the ARRL that Motorola is now enjoying. 'However, we can and should remain critical of the FCC's Report and Order, which makes no effort to distinguish between good and bad ways of pursuing BPL,' he added.

Sumner says the League is looking forward to seeing the first Powerline LV system in operation. The ARRL will continue to work with Motorola 'to ensure that their new product is indeed the first BPL system that is a solution, not a problem,' he said.

Japan to relax Morse licensing requirements

The Japan Ministry of Internal Affairs and Communications (MIC) took action May 24 to relax Morse code requirements for Amateur

Radio licensing, but it did not eliminate
them altogether. Effective Oct 1, 2005,
the MIC will reduce the requirements for
First and Second class licenses to 5 WPM
- solid copy for two minutes. The previous
code requirements for these licenses were
12 and 9 WPM respectively. The MIC will
drop the Morse requirement, now 5 WPM, for
then Third class license.

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IPS Weekly Solar and Geophysical Report 20/26 May

SUMMARY

Date	20	21	22	23	24	25	26	
10cm flux	84	82	82	83	85	84	90	
AFr index	17	13	10	5	2	2	5	est
Aaus index	17	12	6	4	2	3	0	est
T index	36	38	26	32	17	29	26	

Solar flare activity was very low all weeks.

Geomagnetic activity observed for the Australian
Region was quiet to minor storm on 20th quiet to
active on 21st mostly quiet to unsettled on 22nd
and quiet on 23/26th.

Southern Australian Ionospheric F2 critical
frequencies were near predicted on 20/21st and
25/26th near predicted to 20 percent depressed on
22nd and 24th near predicted to 15 percent
depressed on 23rd.

Forecast for 27th May to 2nd Jun

Solar activity should be predominately low with
the chance of a moderate low level M flare from
solar region 767.

Geomagnetic activity should be mostly quiet with
active minor storm periods probable on 28/29th May
due to a weak full halo coronal mass ejection and
recurrent effects.

Frequencies could be depressed 15 percent on 28th
and mildly depressed after local dawn on 29th
otherwise near normal. Short Wave Fadeouts are
possible early in the week.

courtesy of the IPS Radio and Space Services

summary by Pat VK2JPA ANARTS Broadcast Officer

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VK2SG RTTY DX NOTES week ending 26 May

Our information this week came from AA5AU I5FLN DJ3IW
UT5RP, GB7DXG and the OH2AQ DX Summit. Thank you all.

Bandpass

Friday 20
0255-14087 3B9FR
0711-18101 DJ1TU
0715-18101 DG0CG
0832-14085 EN50KIEV
1541-18102 CT1XK
1628-14082 HB0/DL2SBY
1644-28083 UZ7HO
1757-28082 YL2GP
1841-28084 SV1GSA
1855-7037 MW0CRI
1930-28082 EA6BH
1940-14085 LI7HJA
2003-10135 OY/OK2SG

Saturday 21
0608-14084 EA6BH
0732-21082 FR5AB
0840-21085 AP2IA
0842-14084 LI5TFA
0853-21089 FR1HZ
1159-14086 DS2GOO/P
1239-14087 CX7OC
1452-21101 V51AS
1518-14082 ER1AO
1546-14079 DS2GOO/P
1607-10138 F6AUS/P
1652-14080 5T5SN
1712-14082 EM50EKY
1727-14087 DS2GOO/P
1736-28080 9A2CY
1759-24920 CT1XK
1825-28086 OE6MDF
1939-14080 T77NC
2132-10143 RA3CQ
2336-14083 CO1RG
2345-7035 VK6HD
2349-14085 VK3SC

Sunday 22
0025-14085 CT3EN
0509-14086 4K5D
0518-14085 FK8GX
0521-14083 VK4TUX
0545-14086 XE1FXM
0550-14086 7L1WII
0855-24922 ON7GB
1023-14080 IM0MBP
1125-18103 4X6UO
1139-14078 9K2SR
1406-28087 DF4WC
1451-14086 AP2IA

1507-14089 FR1HZ
1507-18107 AP2IA
1545-28081 F8BJI
1547-28083 GU0SUP
1552-28080 HA7TM
1605-28082 MW0CRI
1606-28085 SP6GCU
1610-28088 OK2CLW
1625-28085 DL1DVE
1658-14088 4K5D via K2PF
1703-14088 JT1CO
1704-14087 MW0CRI
1724-14081 EN50KIEV
1745-18102 CT1XK
1800-14079 AP2IA

Monday 23
0119-14082 CE1VIL
0948-7035 VK2DAY
1355-14087 T77M
1443-14081 BX4AN
1603-24921 I5RFD
1854-14084 C37JPE
1959-14086 TF3HP
2058-14087 C37JPE
2118-14080 A71BX
2142-14084 HK6PSG
2328-14084 CX7OC

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Tuesday 24
0129-14085 CE1VIL
0814-18104 JA1CLW
0900-14085 HB0/DL2SBY
1400-14085 C37JPE via C37URA
1454-18100 DS5GOO/P
1620-14086 JT1CO
1626-18100 TU2OJ via F5IPW
1649-18103 SV1EML
1657-14085 OE50PMI
1705-18103 JA1BOQ
1720-10136 F8BJI
1947-10142 UR5FAV
1951-10139 MW0CRI
2004-14090 9K2CQ
2038-14080 SV8/DF7XE/P
2117-14082 M0UNI
2145-14086 C37PJE
2224-14092 TA1BM
2303-18103 AD0K
2315-24921 W2QO
2317-28081 W2QO
2318-18103 W2QO

Wednesday 25
0633-14083 LI7AJ
0811-18108 TK/HA0HW
1138-14091 9K2CQ

1254-14085 OY/OK2SG
1349-21084 FR1HZ
1444-18109 HZ1IK
1500-14083 HZ1IK
1526-14084 YB5QZ
1635-21082 IS0YTA
1716-14091 TK/HA0HW
2136-14084 CU3DP
2146-14083 KS0M (worked from EU)
2242-14084 OX3DB
2302-14083 CU3EQ

Thursday 26
0230-14086 HK6PSG
0453-14070 FO/F5JGT/P PSK in EU
0816-18104 JA1CLW
0903-14084 MM0CEZ
1402-18103 RD3BD
1435-18105 FR1HZ
1435-18104 LI8AJ
1541-14081 TM0L via F5OIU
1704-14082 ZA/DM5TI
1928-14084 PY4BL
1957-14087 OE50PMI
2000-14081 ZW8DX

The VK2SG RTTY DX NOTES are distributed every
week via the Winlink network and are also
available on the Internet at
URL http://mailman.qth.net/mailman/listinfo/vk2sg-rtty
and the digital-dx reflector.

To subscribe to the digital-dx reflector, send an
email message to majordomo at mla.nifty.ne.jp as
follows:
Subject:(blank)
Message Body: subscribe digital-dx

For next weeks bulletin send your bandpass and
notes of interest to Luciano I5FLN at email
luciano.fusari at aliceposta.it

GL and GD RTTY DX de Phil Cooper GU0SUP

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As the OPDX Bulletin editor is obviously still
getting over the Dayton Hamvention, we offer
the ARRL DX News in its place.

ARLD021 DX news

This week's bulletin was made possible with info
provided by PS8DX, QRZ DX, the OPDX Bulletin, The
Daily DX, 425DXnews, DXNL, WA7BNM and Contest
Corral from QST. Thanks to all.

GHANA, 9G. Don G3XTT will be QRV as 9G5FD in the CQ WPX contest. There may also be some activity before and after the contest. He is here until Jun 2. QSL to home call.

TONGA, A3. Rick AI5P will be QRV as A35PX from May 28 to Jun 7. Activity will be on 40 to 10M using mostly CW. QSL to home call.

MOZAMBIQUE, C9. Carl SM0EPU is QRV as C91EP from Maputo while on work assignment. He is active in his spare time on 20 17 and 15Ms. He is here until early Jul. QSL to home call.

CUBA, CO. Juan CO8TW will a Single Band/Low Power entry on 20M in the CQ WPX contest. QSL via IZ8CCW.

PORTUGAL, CT. Look for Con DF4SA to be QRV as CS5A in the CQ WPX contest. He will be a Single Op/All Band/High/Unassisted entry. QSL via CS1GDX.

CAPE VERDE, D4. Look for Al 4L5A to be QRV as D4B as a Single Op/All Band entry in the CQ WPX contest. QSL via K1BV. Meanwhile Val, RD3AF will be QRV from D44AC as a Single Op/20-meter entry during the CQ WPX contest. QSL via D44AC.

CANARY ISLANDS, EA8. In celebration of The Canary Islands Day some members of the Canary Islands DX Society are QRV as special event station EF8CID until May 30. QSL via bureau.

RANCE, F. Look for stations F6FYA F5CWU F5MOO F6EMT and F5CQ to be QRV as TM4Q from Berthenay during the CQ WPX contest. QSL via F6FYA.

THAILAND, HS. Champ E21EIC will be QRV in the CQ WPX contest as a Single Op/All Band/Low Power entry. Japan stations QSL via JR5XPG and all others via E21EIC. Meanwhile Finn HS0/OZ1HET will be QRV from the HS0AC club station in the CQ WPX contest. QSL via operator's instructions.

LUXEMBOURG, LX. Juergen DL4SDW will be QRV as LX7I during the CQ WPX contest. QSL via operators instructions.

ALAND ISLANDS, OH0. Pertti OH2PM will be QRV as either OH0R or OH0ZZ for the CQ WPX contest. He will be a Multi/Single entry or Multi/2 if joined by Steve K6AW. QSL via operators instructions.

BRAZIL, PY. The Teresina DX Group is QRV as ZW8DX from Canarias Island IOTA SA-072 until May 29. Activity is on 80 to 10M including the newer bands using CW SSB RTTY and possibly SSTV. QSL via PS8DX. ZW8A is also active until May 29. QSL via PS8HF.

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SWEDEN, SM. To commemorate the ending of the
Swedish/Norwegian Union look for stations SM0WKA
SM5KCO DF6JC SM0DRD and SM3JLA to be QRV as SJ0X
in the CQ WPX contest. This will most probably be a
Multi/Single entry. QSL via SM6JSM.

POLAND, SP. Special event station SN0PTG will be
QRV from May 29 to Jun 12 in celebration of the
120th anniversary of the Sokol Polish Gymnastics
Society in Krakow. QSL via SP9PKZ.

COSTA RICA, TI. Tono EA9CP plans to be QRV as TI2/
EA9CP from May 29 to Jun 6. Activity will be on 20
15 and 10M. QSL to home call.

BELIZE, V3. Ralph K9ZO is QRV as V31RA until Jun 4.
This includes an entry in the CQ WPX contest.
QSL to home call.

BERMUDA, VP9. Jon N0JK plans to be QRV as VP9/N0JK
from May 28 and 31. He will be active on 6M.
QSL to home call.

BURKINA FASO, XT. John SM5DJZ is QRV as XT2JZ until
Jun 4. He is active mostly on 40 to 10M, including
the newer bands and possibly 80M. He will also
participate in the CQ WPX contest. QSL to home call.

CAYMAN ISLANDS, ZF. Look for a team of operators to
be QRV as ZF1A in the CQ WPX contest. QSL via
operators instructions.

THIS WEEKEND ON THE RADIO. The CQ World Wide WPX CW
Contest, ARCI Hootowl CW Sprint and the MI QRP
Memorial Day CW Sprint will certainly keep contesters
busy this weekend. Please see May QST page 99 and the
ARRL and WA7BNM contest websites for details.

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The Society can be contacted in the following ways
To Pat VK2JPA via vk2jpa at wia.org.au or
Col VK2CTD via ctdavies at bigpond.net.au or
you can drop a line to P.O. Box 93 Toongabbie, NSW 2146.
73's for this week from Pat VK2JPA Broadcast Officer
NNNN